FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Buckeye Texas Hub LLC

AUTHORIZING THE OPERATION OF
Buckeye Texas Hub
Texas Dock and Rail Company
Petroleum Bulk stations and Terminals

LOCATED AT
Nueces County, Texas
Latitude 27° 49' 26" Longitude 97° 29' 56"
Regulated Entity Number: RN103914974

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O3622 Issuance Date: _____

_____
For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:

   A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

   B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

   C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

E. Emission units subject to 40 CFR Part 63, Subpart DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1130 which incorporates the 40 CFR Part 63 Subpart by reference.

F. Emission units subject to 40 CFR Part 63, Subpart R as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.230 which incorporates the 40 CFR Part 63 Subpart by reference.

G. Emission units subject to 40 CFR Part 63, Subpart Y as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.300 which incorporates the 40 CFR Part 63 Subpart by reference.

H. Emission units subject to 40 CFR Part 63, Subpart EEEE as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.880 which incorporates the 40 CFR Part 63 Subpart by reference.

I. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

B. Title 30 TAC § 101.3 (relating to Circumvention)

C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

H. Title 30 TAC § 101.221 (relating to Operational Requirements)

I. Title 30 TAC § 101.222 (relating to Demonstrations)

J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1 , shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

(i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(1)(E)

(iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

(iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible

emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)

(b) However, if visible emissions are present during the observation, the permit holder shall either list this

occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:

(i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)

(ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)

(iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: "Storage of Volatile Organic Compounds," the permit holder shall comply with the requirements of 30 TAC § 115.112(b)(1).

5. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:

A. When filling gasoline storage vessels with a nominal capacity greater than 1,000 gallons (Stage I) at motor vehicle fuel dispensing facilities, which have dispensed less than 100,000 gallons of gasoline in any calendar month after October 31, 2014, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

(i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

(ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)

(iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

(iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)

B. When filling stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons at a Stage I motor vehicle fuel dispensing facility, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

(i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

(ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)

(iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

6. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

B. Title 40 CFR § 60.8 (relating to Performance Tests)

C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

D. Title 40 CFR § 60.12 (relating to Circumvention)

E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

F. Title 40 CFR § 60.14 (relating to Modification)

G. Title 40 CFR § 60.15 (relating to Reconstruction)

H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

7. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

8. For the bulk gasoline terminals specified in 40 CFR Part 63, Subpart R, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.230 incorporated by reference):

A. Title 40 CFR § 63.420(h), for applicability of the General Provisions of Subpart A

B. Title 40 CFR § 63.422(c), (c)(1) - (2) (relating to Standards: Loading Racks)

C. Title 40 CFR § 63.424(a) - (d) (relating to Standards: Equipment Leaks)

D. Title 40 CFR § 63.424(g) (relating to Standards: Equipment Leaks)

E. Title 40 CFR § 63.425(e) - (h) (relating to Test Methods and Procedures)

F. Title 40 CFR § 63.428(a) - (b), (g)(1), and (h)(2) - (3) (relating to Reporting and Recordkeeping)

G. Title 40 CFR § 63.428(e)(1) - (7), (f)(1) - (2), (g), (g)(3), (h)(4)(i) - (iv) (relating to Reporting and Recordkeeping)

9. For the operations pertaining to the loading and unloading of marine tank vessels specified in 40 CFR Part 63, Subpart Y, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.300 incorporated by reference):

A. Title 40 CFR § 63.560(c) (relating to Designation of Affected Source), for applicability of the General Provisions of Subpart A

B. Title 40 CFR § 63.563(a)(4) (relating to Compliance and Performance Testing), for vapor tightness requirements of the marine vessels

C. Title 40 CFR § 63.564(a)(1) and (d) (relating to Monitoring Requirements)

D. Title 40 CFR § 63.565(a) (relating to Test Methods and Procedures), for performance testing requirements

E. Title 40 CFR § 63.565(c) (relating to Test Methods and Procedures), for vapor tightness requirements of the marine vessels

F. Title 40 CFR § 63.566 (relating to Construction and Reconstruction)

G. Title 40 CFR § 63.567(a) - (b) and (h) - (i) (relating to Reporting and Recordkeeping Requirements)

10. For site remediation projects subject to 40 CFR Part 63, Subpart GGGGG that will remove remediation material containing less than 1 megagram per year of the HAP listed in Table 1 to Subpart GGGGG, the permit holder shall comply with 40 CFR § 63.7881(c)(1) - (3) (Title 30 TAC Chapter 113, Subchapter C, § 113.1160 incorporated by reference).

11. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

12. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for,

as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

13. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

    A. Are incorporated by reference into this permit as applicable requirements

    B. Shall be located with this operating permit

    C. Are not eligible for a permit shield

14. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

15. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

16. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the

certification must be submitted within 30 days after the end of the period being certified.

17. Use of Discrete Emission Credits to comply with the applicable requirements:

    A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

        (i) Title 30 TAC Chapter 115

        (ii) Title 30 TAC Chapter 117

        (iii) If applicable, offsets for Title 30 TAC Chapter 116

        (iv) Temporarily exceed state NSR permit allowables

    B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

        (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

        (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

        (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

        (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

        (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

18. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Permit Location

19. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

20. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Note: A "none" entry may be noted for some emission sources in this permit's "Applicable Requirements Summary" under the heading of "Monitoring and Testing Requirements" and/or "Recordkeeping Requirements" and/or "Reporting Requirements." Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
BOILER_1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DC_BOILER1	40 CFR Part 60, Subpart Dc	No changing attributes.
FUG_OLD	FUGITIVE EMISSION UNITS	N/A	63EEEE-FUG-OLD	40 CFR Part 63, Subpart EEEE	No changing attributes.
GRP_115ST	STORAGE TANKS/VESSELS	115-01, 115-02, 115-03, 115-04	R5112_115KST1	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, Product Stored = VOC other than crude oil or condensate
GRP_115ST	STORAGE TANKS/VESSELS	115-01, 115-02, 115-03, 115-04	R5112_115KST2	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, Product Stored = Crude oil and/or condensate
GRP_115ST	STORAGE TANKS/VESSELS	115-01, 115-02, 115-03, 115-04	60KB_115KST1	40 CFR Part 60, Subpart Kb	Product Stored = Petroleum liquid (other than petroleum or condensate)
GRP_115ST	STORAGE TANKS/VESSELS	115-01, 115-02, 115-03, 115-04	60KB_115KST2	40 CFR Part 60, Subpart Kb	Product Stored = Petroleum (other than crude oil) or condensate stored, processed, and/or treated after custody transfer
GRP_115ST	STORAGE TANKS/VESSELS	115-01, 115-02, 115-03, 115-04	63EEEE_115ST	40 CFR Part 63, Subpart EEEE	No changing attributes.
GRP_115ST	STORAGE TANKS/VESSELS	115-01, 115-02, 115-03, 115-04	63R_115KST	40 CFR Part 63, Subpart R	No changing attributes.
GRP_250ST	STORAGE TANKS/VESSELS	250-01, 250-02, 250-03, 250-04, 250-05, 250-06	R5112_250KST1	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, Product Stored = VOC other than crude oil or condensate

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP_250ST	STORAGE TANKS/VESSELS	250-01, 250-02, 250-03, 250-04, 250-05, 250-06	R5112_250KST2	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, Product Stored = Crude oil and/or condensate
GRP_250ST	STORAGE TANKS/VESSELS	250-01, 250-02, 250-03, 250-04, 250-05, 250-06	60KB_250KST1	40 CFR Part 60, Subpart Kb	Product Stored = Petroleum liquid (other than petroleum or condensate)
GRP_250ST	STORAGE TANKS/VESSELS	250-01, 250-02, 250-03, 250-04, 250-05, 250-06	60KB_250KST2	40 CFR Part 60, Subpart Kb	Product Stored = Petroleum (other than crude oil) or condensate stored, processed, and/or treated after custody transfer
GRP_250ST	STORAGE TANKS/VESSELS	250-01, 250-02, 250-03, 250-04, 250-05, 250-06	63EEEE-250KST	40 CFR Part 63, Subpart EEEE	No changing attributes.
GRP_250ST	STORAGE TANKS/VESSELS	250-01, 250-02, 250-03, 250-04, 250-05, 250-06	63R_250KST	40 CFR Part 63, Subpart R	No changing attributes.
GRP_45ST	STORAGE TANKS/VESSELS	45-01, 45-02	R5112_45KST	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP_45ST	STORAGE TANKS/VESSELS	45-01, 45-02	60KB_45ST	40 CFR Part 60, Subpart Kb	No changing attributes.
GRP_45ST	STORAGE TANKS/VESSELS	45-01, 45-02	63EEEE_45ST	40 CFR Part 63, Subpart EEEE	No changing attributes.
GRP_5080ST	STORAGE TANKS/VESSELS	50-01, 50-02, 50-03, 80-01, 80-02, 80-03	R5112_5080KST1	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, Product Stored = VOC other than crude oil or condensate

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP_5080ST	STORAGE TANKS/VESSELS	50-01, 50-02, 50-03, 80-01, 80-02, 80-03	R5112_5080KST2	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, Product Stored = Crude oil and/or condensate
GRP_5080ST	STORAGE TANKS/VESSELS	50-01, 50-02, 50-03, 80-01, 80-02, 80-03	60KB_5080KST1	40 CFR Part 60, Subpart Kb	Product Stored = Petroleum liquid (other than petroleum or condensate)
GRP_5080ST	STORAGE TANKS/VESSELS	50-01, 50-02, 50-03, 80-01, 80-02, 80-03	60KB_5080KST2	40 CFR Part 60, Subpart Kb	Product Stored = Petroleum (other than crude oil) or condensate stored, processed, and/or treated after custody transfer
GRP_5080ST	STORAGE TANKS/VESSELS	50-01, 50-02, 50-03, 80-01, 80-02, 80-03	63EEEE_5080ST	40 CFR Part 63, Subpart EEEE	No changing attributes.
GRP_5080ST	STORAGE TANKS/VESSELS	50-01, 50-02, 50-03, 80-01, 80-02, 80-03	63R_5080KST	40 CFR Part 63, Subpart R	No changing attributes.
GRP_CONTML	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	VCU1, VCU2	111-VCU	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP_FWP	SRIC ENGINES	FWP1, FWP2	60IIII_FP	40 CFR Part 60, Subpart IIII	No changing attributes.
GRP_FWP	SRIC ENGINES	FWP1, FWP2	63ZZZZ_FP	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP_VRUML	LOADING/UNLOADING OPERATIONS	VRU1, VRU2, VRU3	63Y-VRU-ML	40 CFR Part 63, Subpart Y	No changing attributes.
HOHEATER	PROCESS	N/A	63DDDDD_HOH	40 CFR Part 63, Subpart	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	HEATERS/FURNACES			DDDDD	
LDRKS_0.1-	LOADING/UNLOADING OPERATIONS	N/A	5211-LDRKS-0.1-	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
UNLDRKS	LOADING/UNLOADING OPERATIONS	N/A	63EEEE_ULRKS	40 CFR Part 63, Subpart EEEE	No changing attributes.
VRU4	LOADING/UNLOADING OPERATIONS	N/A	5211-VRU-RL	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
VRU4	LOADING/UNLOADING OPERATIONS	N/A	63EEEE_VRURL	40 CFR Part 63, Subpart EEEE	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER_1	EU	60DC_BOILER1	SO_2	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
BOILER_1	EU	60DC_BOILER1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
BOILER_1	EU	60DC_BOILER1	PM (OPACITY)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
FUG_OLD	EU	63EEEE-FUG-OLD	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2338(b) The permit holder shall comply with the applicable limitation, standard and/or equipment	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63,	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart EEEE

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					specification requirements of 40 CFR Part 63, Subpart EEEE		EEEE	Subpart EEEE	
GRP_115ST	EU	R5112_115KST1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A) § 115.112(b)(2)(B) § 115.112(b)(2)(C) § 115.112(b)(2)(D) § 115.112(b)(2)(E) § 115.114(b)(1)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(b)(1)(A) [G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.114(b)(1)(B)
GRP_115ST	EU	R5112_115KST2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A) § 115.112(b)(2)(B) § 115.112(b)(2)(C) § 115.112(b)(2)(D) § 115.112(b)(2)(E) § 115.114(b)(1)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(b)(1)(A) [G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.114(b)(1)(B)
GRP_115ST	EU	60KB_115KST1	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
GRP_115ST	EU	60KB_115KST2	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i)	Storage vessels specified in	§ 60.113b(a)(1) § 60.113b(a)(2)	§ 60.115b § 60.115b(a)(2)	§ 60.113b(a)(2) § 60.113b(a)(5)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	§60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
GRP_115ST	EU	63EEEE_115ST	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2338(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart EEEE
GRP_115ST	EU	63R_115KST	TOC	40 CFR Part 63, Subpart R	§ 63.423(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Bulk gasoline terminals/pipeline breakout stations shall equip gasoline storage vessels with a capacity > 75 m^3 as in § 60.112b(a)(1)-(4), except § 60.112b(a)(1)(iv)-(ix) and § 60.112b(a)(2)(ii).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2) § 60.116b(e)(2)(i) § 63.425(d) § 63.427(c)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(c) § 63.427(c) § 63.428(d)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) § 60.116b(d) § 63.428(d) § 63.428(g) § 63.428(g)(2)
GRP_250ST	EU	R5112_250KST1	VOC	30 TAC Chapter 115, Storage of	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A)	Tanks shall not store VOC unless the required pressure is	§ 115.114(b)(1)(A) [G]§ 115.117 ** See Periodic	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.114(b)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				VOCs	§ 115.112(b)(2)(B) § 115.112(b)(2)(C) § 115.112(b)(2)(D) § 115.112(b)(2)(E) § 115.114(b)(1)(A)	maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	Monitoring Summary		
GRP_250ST	EU	R5112_250KST2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A) § 115.112(b)(2)(B) § 115.112(b)(2)(C) § 115.112(b)(2)(D) § 115.112(b)(2)(E) § 115.114(b)(1)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(b)(1)(A) [G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.114(b)(1)(B)
GRP_250ST	EU	60KB_250KST1	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
GRP_250ST	EU	60KB_250KST2	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						(ix).			
GRP_250ST	EU	63EEEE-250KST	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2338(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart EEEE
GRP_250ST	EU	63R_250KST	TOC	40 CFR Part 63, Subpart R	§ 63.423(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Bulk gasoline terminals/pipeline breakout stations shall equip gasoline storage vessels with a capacity > 75 m^3 as in § 60.112b(a)(1)-(4), except § 60.112b(a)(1)(iv)-(ix) and § 60.112b(a)(2)(ii).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2) § 60.116b(e)(2)(i) § 63.425(d) § 63.427(c)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(c) § 63.427(c) § 63.428(d)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) § 60.116b(d) § 63.428(d) § 63.428(g) § 63.428(g)(2)
GRP_45ST	EU	R5112_45KST	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A) § 115.112(b)(2)(B) § 115.112(b)(2)(C) § 115.112(b)(2)(D) § 115.112(b)(2)(E) § 115.114(b)(1)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(b)(1)(A) [G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.114(b)(1)(B)
GRP_45ST	EU	60KB_45	VOC	40 CFR Part 60,	§ 60.112b(a)(1)	Storage vessels	§ 60.113b(a)(1)	§ 60.115b	§ 60.113b(a)(2)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
		ST		Subpart Kb	§ 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
GRP_45ST	EU	63EEEE_45ST	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2338(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart EEEE
GRP_5080ST	EU	R5112_5080KST1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A) § 115.112(b)(2)(B) § 115.112(b)(2)(C) § 115.112(b)(2)(D) § 115.112(b)(2)(E) § 115.114(b)(1)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(b)(1)(A) [G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.114(b)(1)(B)
GRP_5080ST	EU	R5112_5080KST2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A) § 115.112(b)(2)(B) § 115.112(b)(2)(C) § 115.112(b)(2)(D) § 115.112(b)(2)(E)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in	§ 115.114(b)(1)(A) [G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5)	§ 115.114(b)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.114(b)(1)(A)	Table I(a) or Table II(a).			
GRP_5080ST	EU	60KB_5080KST1	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)
GRP_5080ST	EU	60KB_5080KST2	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)
GRP_5080ST	EU	63EEEE_5080ST	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2338(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart EEEE
GRP_5080ST	EU	63R_508	TOC	40 CFR Part 63,	§ 63.423(a)	Bulk gasoline	§ 60.113b(a)(1)	§ 60.115b	§ 60.113b(a)(5)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
		0KST		Subpart R	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	terminals/pipeline breakout stations shall equip gasoline storage vessels with a capacity > 75 m^3 as in § 60.112b(a)(1)-(4), except § 60.112b(a)(1)(iv)-(ix) and § 60.112b(a)(2)(ii).	[G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2) § 60.116b(e)(2)(i) § 63.425(d) § 63.427(c)	§ 60.115b(a)(2) § 60.116b(a) § 60.116b(c) § 63.427(c) § 63.428(d)	§ 60.115b § 60.115b(a)(1) § 60.115b(a)(4) § 60.116b(d) § 63.428(d) § 63.428(g) § 63.428(g)(2)
GRP_CONTML	EP	111-VCU	PM (OPACITY)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRP_FWP	EU	60IIII_FP	NMHC and NO_x	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart.			
GRP_FWP	EU	60IIII_FP	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart.	None	None	None
GRP_FWP	EU	63ZZZZ_FP	EXEMPT	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) [G]§ 63.6640(f)(2) § 63.6640(f)(3)	An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of	None	None	§ 63.6645(c) § 63.6645(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						§63.6645(f).			
GRP_VRUML	EU	63Y-VRU-ML	112(B) HAPS	40 CFR Part 63, Subpart Y	§ 63.562(b) [G]§ 63.562(b)(1) [G]§ 63.562(b)(6) [G]§ 63.562(e)(2) [G]§ 63.562(e)(3) [G]§ 63.562(e)(7)(i) § 63.562(b)(3) § 63.562(b)(5) § 63.562(e) § 63.562(e)(1) § 63.562(e)(4) § 63.562(e)(5) § 63.562(e)(6) § 63.562(e)(7) § 63.562(e)(7)(ii) § 63.563(a)(2) § 63.563(a)(3)	The owner or operator of a new source with emissions less than 10 and 25 tons and an existing or new source with emissions of 10 or 25 tons shall equip each terminal with a vapor collection system that is designed to collect HAP vapors displaced from marine tank vessels during marine tank vessel loading operations and to prevent HAP vapors collected at one loading berth from passing through another loading berth to the atmosphere, except for those commodities exempted under §63.560(d).	[G]§ 63.562(b)(6) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) [G]§ 63.565(b) § [G]63.563(c) § 63.563(b)(10) § 63.563(b)(6) § 63.563(b)(6)(i) § 63.563(b)(6)(ii) § 63.563(b)(6)(ii)(B) § 63.563(b)(3) § 63.563(b)(6)(iii) § 63.564(a)(2) § 63.564(a)(3) § 63.564(a)(4) § 63.564(a)(5) § 63.564(c) § 63.564(g)(2) § 63.565(h)(1) § 63.565(i) § 63.565(l)	[G]§ 63.562(b)(6) [G]§ 63.562(e)(7)(i) § 63.564(g)(2) [G]§ 63.567(g) [G]§ 63.567(k) § 63.562(e)(5) § 63.562(e)(7)(ii) § 63.567(f) § 63.567(j)(1) § 63.567(j)(2)	[G]§ 63.562(b)(6) § 63.564(a)(5) [G]§ 63.567(e)(2) § 63.567(b)(5)(ii) § 63.567(c) § 63.567(e)(1) § 63.567(e)(3) § 63.567(e)(4) § 63.567(e)(5) § 63.567(e)(6) § 63.567(e)(7)(ii) § 63.567(f) § 63.567(j)(3) § 63.567(m) § 63.567(n)(1) § 63.567(n)(2)
HOHEATER	EU	63DDDDD_HOH	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					DDDDD				
LDRKS_0.1-	EU	5211-LDRKS-0.1-	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(2) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
UNLDRKS	EU	63EEEE_ULRKS	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2338(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart EEEE
VRU4	EU	5211-VRU-RL	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(b)(1) § 115.212(b)(1)(A) § 115.212(b)(3)(A) § 115.212(b)(3)(A)(ii) § 115.212(b)(3)(B) [G]§ 115.212(b)(3)(C) § 115.212(b)(3)(E) § 115.214(b)(1)(B) § 115.214(b)(1)(C)	In Aransas, Bexar, Calhoun, Gregg, Matagorda, Nueces, San Patricio, Travis, and Victoria Counties, vapors caused by the loading of VOC with a TVP greater than or equal to 1.5 psia must be controlled using one of the methods specified in §115.212(b)(1)(A)-(C).	§ 115.212(b)(3)(B) [G]§ 115.212(b)(3)(C) § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(A)(ii) § 115.214(b)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(8) § 115.215(9)	§ 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iii) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iii)		
VRU4	EU	63EEEE_VRURL	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2338(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart EEEE	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart EEEE

Additional Monitoring Requirements

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP_115ST	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112_115KST1
Pollutant: VOC	Main Standard: § 115.112(b)(1)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: n/a	
Deviation Limit: Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP_115ST	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112_115KST2
Pollutant: VOC	Main Standard: § 115.112(b)(1)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: n/a	
Deviation Limit: Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP_250ST	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112_250KST1
Pollutant: VOC	Main Standard: § 115.112(b)(1)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: n/a	
Deviation Limit: Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered a deviation	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP_250ST	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112_250KST2
Pollutant: VOC	Main Standard: § 115.112(b)(1)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: n/a	
Deviation Limit: Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered a deviation	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP_45ST	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112_45KST
Pollutant: VOC	Main Standard: § 115.112(b)(1)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: n/a	
Deviation Limit: Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP_5080ST	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112_5080KST1
Pollutant: VOC	Main Standard: § 115.112(b)(1)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: n/a	
Deviation Limit: Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP_5080ST	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112_5080KST2
Pollutant: VOC	Main Standard: § 115.112(b)(1)
Monitoring Information	
Indicator: Internal Floating Roof	
Minimum Frequency: annually	
Averaging Period: n/a	
Deviation Limit: Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric	
Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP_CONTML	
Control Device ID No.: VCU1	Control Device Type: Vapor Combustor
Control Device ID No.: VCU2	Control Device Type: Vapor Combustor
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: 111-VCU
Pollutant: PM (OPACITY)	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per quarter	
Averaging Period: n/a	
Deviation Limit: 15% opacity	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.	

Permit Shield

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP_CONTML	VCU1, VCU2	40 CFR Part 63, Subpart Y	MACT Y does not apply to emissions resulting from marine tank vessel loading operations of commodities with vapor pressures less than 10.3 kilopascals (kPa).
GRP_T1-T6	T-1, T-2, T-3, T-4, T-5, T-6	40 CFR Part 60, Subpart Kb	NSPS Kb does not apply to storage vessels with a capacity greater than or equal to 151 m3 storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa).
GRP_T1-T6	T-1, T-2, T-3, T-4, T-5, T-6	40 CFR Part 63, Subpart EEEE	The definition of an 'organic liquid' (and therefore the applicability to the organic liquid distribution MACT) does not include kerosene, diesel, asphalt and heavy distillate and fuel oils.
GRP_VRUML	VRU1, VRU2, VRU3	30 TAC Chapter 115, Loading and Unloading of VOC	Marine vessels. All loading and unloading of marine vessels is exempt from this division
LDRKS_0.1-	N/A	40 CFR Part 63, Subpart EEEE	The definition of an 'organic liquid' (and therefore the applicability to the organic liquid distribution MACT) does not include kerosene, diesel, asphalt and heavy distillate and fuel oils.
LPG_LOAD	N/A	40 CFR Part 63, Subpart Y	MACT Y does not apply to marine tank vessel loading operations at loading berths that only transfer liquids containing organic HAP as impurities. Any HAPs present in LPG would meet the definition of an impurity.

New Source Review Authorization References

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX1324M1	Issuance Date: 03/24/2016
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 106594	Issuance Date: 03/24/2016
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.476	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
115-01	115-01 STORAGE TANK	106594, PSDTX1324M1
115-02	115-02 STORAGE TANK	106594, PSDTX1324M1
115-03	115-03 STORAGE TANK	106594, PSDTX1324M1
115-04	115-04 STORAGE TANK	106594, PSDTX1324M1
250-01	250-01 STORAGE TANK	106594, PSDTX1324M1
250-02	250-02 STORAGE TANK	106594, PSDTX1324M1
250-03	250-03 STORAGE TANK	106594, PSDTX1324M1
250-04	250-04 STORAGE TANK	106594, PSDTX1324M1
250-05	250-05 STORAGE TANK	106594, PSDTX1324M1
250-06	250-06 STORAGE TANK	106594, PSDTX1324M1
45-01	45-01 STORAGE TANK	106594, PSDTX1324M1
45-02	45-02 STORAGE TANK	106594, PSDTX1324M1
50-01	50-01 STORAGE TANK	106594, PSDTX1324M1
50-02	50-02 STORAGE TANK	106594, PSDTX1324M1
50-03	50-03 STORAGE TANK	106594, PSDTX1324M1
80-01	80-01 STORAGE TANK	106594, PSDTX1324M1
80-02	80-02 STORAGE TANK	106594, PSDTX1324M1
80-03	80-03 STORAGE TANK	106594, PSDTX1324M1
BOILER_1	21.9 MMBTU/HR BOILER	106.183/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
FUG_OLD	FUG. EQUIP. LEAK COMPONENTS IN SER. OF ORG. LIQ. D	106594, PSDTX1324M1
FWP1	MAIN EMERGENCY FIREWATER PUMP	106.511/09/04/2000
FWP2	BACKUP EMERGENCY FIREWATER PUMP	106.511/09/04/2000
HOHEATER	7 MMBTU/HR HOT OIL HEATER	106.183/09/04/2000
LDRKS_0.1-	TANK TRUCK & RAILCAR LOADING RACKS SERVING PETROLE	106.472/09/04/2000
LPG_LOAD	LPG LOADING	106.261/11/01/2003
T-1	T-1 STORAGE TANK	106.478/09/04/2000
T-2	T-2 STORAGE TANK	106.478/09/04/2000
T-3	T-3 STORAGE TANK	106.478/09/04/2000
T-4	T-4 STORAGE TANK	106.478/09/04/2000
T-5	T-5 STORAGE TANK	106.478/09/04/2000
T-6	T-1 STORAGE TANK	106.478/09/04/2000
UNLDRKS	TANK TRUCK & RAILCAR UNLOADING (NO CARGO VESSEL)	106594, PSDTX1324M1
VCU1	VAPOR COMBUSTOR #1	106594, PSDTX1324M1
VCU2	VAPOR COMBUSTOR #2	106594, PSDTX1324M1
VRU1	VAPOR RECOVERY UNIT 1	106594, PSDTX1324M1
VRU2	VAPOR RECOVERY UNIT 2	106594, PSDTX1324M1
VRU3	VAPOR RECOVERY UNIT 3	106594, PSDTX1324M1

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
VRU4	VAPOR RECOVERY UNIT 4	106594, PSDTX1324M1

Appendix A

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
COMS ..... continuous opacity monitoring system
CVS ..... closed-vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
DR ..... Designated Representative
ElP ..... El Paso (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
GF ..... grandfathered
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MMBtu/hr ..... Million British thermal units per hour
MRRT ..... monitoring, recordkeeping, reporting, and testing
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PM ..... particulate matter
ppmv ..... parts per million by volume
PSD ..... prevention of significant deterioration
RO ..... Responsible Official
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound

Appendix B

Major NSR Summary Table

Permit Number: 30 TAC Chapter 116 Permit 106594/PSDTX1324 M1			Issuance Date: 03/24/2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
MSS1_STRL	Uncontrolled Roof Landings	VOC	26.15	2.20	17, 20	17, 20, 21	
MSS2_FMM	Flow Meter Maintenance	VOC	0.08	0.01	17	17	
MSS4_PLP	Pipeline Pigging 1	VOC	2.50	0.01	17, 22	17, 22	
MSS_5_HG1	HG Guard 1 Maintenance	VOC	0.46	0.01	17	17	
MSS6_HG2	HG Guard 2 Maintenance	VOC	0.46	0.01	17	17	
MSS7_PLP2	Pipeline Pigging 2	VOC	2.34	0.01	17, 22.	17, 22.	
MSS_VCU	Controlled roof landings (15 MMBtu/hr)	CO	4.77	0.17	17, 20	17, 20, 21	
		NO_X	1.50	0.05	17, 20	17, 20, 21	
		VOC	6.76	0.15	17, 20, 25	17, 20, 21, 22, 25	
		SO_2	0.10	0.01	17, 20	17, 20, 21	
		PM, $PM_{10,}$ $PM_{2.5}$	0.11	0.01	17, 20	17, 20, 21	
FUG1_EQML	Piping Fugitives Area 1 (5)	VOC	0.02	0.09	15, 16, 18, 19	15, 16, 18, 19	15
FUG2_EQST	Piping Fugitives Area 2 (5)	VOC	0.06	0.25	15, 16, 18, 19	15, 16, 18, 19	15
FUG3_EQRU	Piping Fugitives Area 3 (5)	VOC	0.02	0.08	15, 16, 18, 19	15, 16, 18, 19	15
FUG4_EQST	Piping Fugitives Area 4 (5)	VOC	0.03	0.13	15, 16, 18, 19	15, 16, 18, 19	15
FUG5_EQST	Piping Fugitives Area 5 (5)	VOC	0.02	0.10	15, 16, 18, 19	15, 16, 18, 19	15
FUG6_EQST	Piping Fugitives Area 6 (5)	VOC	0.04	0.18	15, 16, 18, 19	15, 16, 18, 19	15
FUG7_EQST	Piping Fugitives Area 7 (5)	VOC	0.04	0.17	15, 16, 18, 19	15, 16, 18, 19	15
FUG8_EQPL	Piping Fugitives Area 8 (5)	VOC	0.01	0.02	15, 16, 18, 19	15, 16, 18, 19	15

Major NSR Summary Table

Permit Number: 30 TAC Chapter 116 Permit 106594/PSDTX1324 M1			Issuance Date: 03/24/2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
FUG9_ML1	East Dock Loading Fugitives	VOC	81.87	90.70	5, 12, 29	5, 12, 29	5
FUG10_ML2	Middle Dock Loading Fugitives	VOC	162.74	152.06	5, 12, 29	5, 12, 29	5
FUG11_ML3	West Dock Loading Fugitives	VOC	269.62	129.98	5, 12, 29	5, 12, 29	5
FUG12_ML4	Sands Dock Loading Fugitives	VOC	26.98	8.45	5, 12, 29	5, 12, 29	5
FUG13_HG1	HG Guard 1 Fugitives (5)	VOC	< 0.01	0.02	15, 16, 18, 19	15, 16, 18, 19	15
FUG14_HG2	HG Guard 2 Fugitives (5)	VOC	< 0.01	0.02	15, 16, 18, 19	15, 16, 18, 19	15
FUG15_PL2	Pipeline Fugitives 2 (5)	VOC	0.03	0.12	15, 16, 18, 19	15, 16, 18, 19	15
FUG16_RL	Rail Loading/Unloading Fugitives	VOC	7.34	1.40	14, 15, 16, 18, 19	14, 15, 16, 18, 19	15
FUG17_VRU1	VRU1 & 2 Fugitive Emissions Area (5)	VOC	0.03	0.12	5, 15, 16, 19	5, 15, 16, 19	5, 15
FUG18_VRU2	VRU3 Fugitive Emissions Area (5)	VOC	0.03	0.12	5, 15, 16, 19	5, 15, 16, 19	5, 15
FUG19_VRU3	VRU4 Fugitive Emissions Area (5)	VOC	0.03	0.12	5, 15, 16, 19	5, 15, 16, 19	5, 15
45-01_ST	Storage Tank 45-01	VOC	7.08	2.06	4, 5, 10	4, 5, 10	4, 5
45-02_ST	Storage Tank 45-02	VOC	7.08	2.06	4, 5, 10	4, 5, 10	4, 5
50-01_ST	Storage Tank 50-01	VOC	2.88	4.25	4, 5, 10	4, 5, 10	4, 5
50-02_ST	Storage Tank 50-02	VOC	2.85	4.18	4, 5, 10	4, 5, 10	4, 5
50-03_ST	Storage Tank 50-03	VOC	2.85	4.18	4, 5, 10	4, 5, 10	4, 5
80-01_ST	Storage Tank 80-01	VOC	3.53	6.31	4, 5, 10	4, 5, 10	4, 5
80-02_ST	Storage Tank 80-02	VOC	3.53	6.31	4, 5, 10	4, 5, 10	4, 5
80-03_ST	Storage Tank 80-03	VOC	3.53	6.31	4, 5, 10	4, 5, 10	4, 5
115-01_ST	Storage Tank 115-01	VOC	2.32	3.71	4, 5, 10	4, 5, 10	4, 5

Major NSR Summary Table

Permit Number: 30 TAC Chapter 116 Permit 106594/PSDTX1324 M1			Issuance Date: 03/24/2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
115-02_ST	Storage Tank 115-02	VOC	2.32	3.71	4, 5, 10	4, 5, 10	4, 5
115-03_ST	Storage Tank 115-03	VOC	2.32	3.71	4, 5, 10	4, 5, 10	4, 5
115-04_ST	Storage Tank 115-04	VOC	2.32	3.71	4, 5, 10	4, 5, 10	4, 5
250-01_ST	Storage Tank 250-01	VOC	3.58	6.86	4, 5, 10	4, 5, 10	4, 5
250-02_ST	Storage Tank 250-02	VOC	3.58	6.86	4, 5, 10	4, 5, 10	4, 5
250-03_ST	Storage Tank 250-03	VOC	3.58	6.86	4, 5, 10	4, 5, 10	4, 5
250-04_ST	Storage Tank 250-04	VOC	3.58	6.86	4, 5, 10	4, 5, 10	4, 5
250-05_ST	Storage Tank 250-05	VOC	3.58	6.86	4, 5, 10	4, 5, 10	4, 5
250-06_ST	Storage Tank 250-06	VOC	3.58	6.86	4, 5, 10	4, 5, 10	4, 5
VCU1	Vapor Combustor 1 (157.6 MMBtu/hr)	VOC	20.22	24.15	5, 12, 26, 30	5, 12, 24, 26, 30	5, 26
		CO	24.6	—		7, 24	
		NO_x	23.7	—		7, 24	
		PM, PM_{10}, $PM_{2.5}$	1.20	—		7	
		SO_2	1.91	—		7	
VCU2	Vapor Combustor 2 (157.6 MMBtu/hr)	VOC	20.22	24.15	5, 12, 26, 30	5, 12, 26, 30	5, 26
		CO	24.6	—		7, 24	
		NO_x	23.7	—		7, 24	
		PM	1.20	—		7	
		PM_{10}	1.20	—		7	
		$PM_{2.5}$	1.20	—		7	
		SO_2	1.91	—		7	
VCU_CMB	VCU Cap (VCU1 and VCU2 combined emissions)	CO	—	38.98		7, 24	
		NO_x	—	37.49		7, 24	
		PM, PM_{10}, $PM_{2.5}$	—	1.90		7	
		SO_2	—	3.03		7	
VRU1	Vapor Recovery Unit 1	VOC	42.06	74.35	5, 12, 26, 28, 31, 32	5, 12, 26, 28, 31, 32, 33, 34	5, 26

Major NSR Summary Table

Permit Number: 30 TAC Chapter 116 Permit 106594/PSDTX1324 M1			Issuance Date: 03/24/2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
VRU2	Vapor Recovery Unit 2	VOC	42.06	74.35	5, 12, 26, 28, 31, 32	5, 12, 26, 28, 31, 32, 33, 34	5, 26
VRU3	Vapor Recovery Unit 3	VOC	140.19	126.32	5, 12, 26, 28, 31, 32	5, 12, 26, 28, 31, 32, 33, 34	5, 26
VRU4	Vapor Recovery Unit 4	VOC	3.50	0.88	5, 26, 28, 31, 32	5, 14, 26, 28, 31, 32, 33, 34	5, 26
GEN1	Backup Diesel Generator (250 kW)	VOC	0.84	0.01	4	4, 5, 8	
		CO	0.50	0.01	4	4, 5, 8	
		NO_x	2.04	0.03	4	4, 5, 8	
		PM, PM_{10} $PM_{2.5}$	0.09	0.01	4	4, 5, 8	
		SO_2	0.69	0.01		8	
FUG20_LPG	Piping Fugitives Area 20 (5)	VOC	0.78	3.43	15, 16, 18, 19	15, 16, 18, 19	15
FUG21_BULT	Bullet tank loading disconnect emissions	VOC	0.03	0.02			
FUG22_BARG	LPG Barge Loading disconnect emissions	VOC	0.43	0.58			
FUG23_OGV	LPG Ocean Going Vessel Loading disconnect emissions	VOC	2.61	0.36			
FUG24_ODOR	LPG Odorant Loading disconnect emissions	VOC	0.01	0.01			

Footnotes:

(1) Emission point identification – either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC – volatile organic compounds as defined in Title 30 Texas Administrative Code §101.1
NO_x – total oxides of nitrogen
SO_2 – sulfur dioxide
PM – total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} – total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ – particulate matter equal to or less than 2.5 microns in diameter
CO – carbon monoxide
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Buckeye Texas Hub LLC
Authorizing the Construction and Operation of
Texas Dock & Rail
Located at **Corpus Christi, Nueces County, Texas**
Latitude 27° 49′ 46″ Longitude −97° 29′ 56″

Permit Numbers: 106594 and PSDTX1324M1
Revision Date: March 24, 2016
Expiration Date: February 18, 2024

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling

facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Special Conditions

Permit Numbers 106594 and PSDTX1324M1

1. This permit authorizes marine terminal operations for a facility located in Corpus Christi, Nueces County, Texas.

   This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources — Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in that table.

2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the MAERT. Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions.

3. Planned startup and shutdown emissions due to the activities identified in Special Condition 17 are authorized from facilities listed in the permit MAERT provided the facility and emissions are compliant with the respective MAERT and applicable special conditions, or are compliant with Special Condition 24 of this permit.

Federal Applicability

4. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):

   A. Subpart A, General Provisions.

   B. Subpart Kb, Volatile Organic Liquid Storage Vessels.

   C. Subpart IIII, Stationary Compression Ignition Internal Combustion Engines.

5. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63: **(6/15)**

   A. Subpart A, General Provisions.

   B. Subpart R, Gasoline Distribution Facilities.

   C. Subpart Y, Marine Tank Vessel Loading Operations.

   D. Subpart EEEE, Organic Liquids Distribution (Non-Gasoline).

   E. Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines.

Emission Standards and Operational Specifications

Combustion sources

6. Fuel gas combusted at this facility shall be sweet natural gas containing no more than 5 grains of total sulfur per 100 dry standard cubic feet.

7. The combined heat duty of the Marine Vapor Combustors (EPNs VCU1 and VCU2) shall not exceed 500,000 million British thermal units (MMBtu) during any rolling 12-month period. Heat duty shall be calculated using marine loading throughput records and natural gas usage records. The heat content of combusted vapors may be determined by engineering estimates, consistent with the calculation methodology employed in the permit application. Records shall be maintained on site and updated on a monthly basis.

8. Testing of the emergency generator (EPN GEN1) shall be limited to 26 hours per rolling 12-month period. **(6/15)**

Storage Tanks

9. Storage tank throughput and service shall be limited as follows: **(03/16)**

Tank ID	Service	Maximum fill/withdrawal rate per tank (Bbl/hr)	Annual throughput per tank (all products stored) (MMBbl/yr)
45-01 45-02	Canadian Bitumen Asphalt	12,000	2.17 MMBbl/yr
50-01 50-02 50-03	Condensate Naphtha Gasoline Jet Kerosene Distillate Kerosene	12,000	3.0 MMBbl/yr
80-01 80-02 80-03	Condensate Naphtha Gasoline Jet Kerosene Distillate Kerosene	12,000	4.81 MMBbl/yr
115-01 115-02 115-03 115-04	Condensate Naphtha Gasoline Jet Kerosene Distillate Kerosene	12,000	6.9 MMBbl/yr

Tank ID	Service	Maximum fill/withdrawal rate per tank (Bbl/hr)	Annual throughput per tank (all products stored) (MMBbl/yr)
250-01 250-02 250-03 250-04 250-05 250-06	Condensate Naphtha Gasoline Jet Kerosene Distillate Kerosene	12,000	10.33 MMBbl/yr

Throughput records required by Special Condition 10.E may be used to demonstrate compliance with the requirements of this condition.

10. Storage tanks are subject to the following requirements: The control requirements specified in parts A–C of this condition shall not apply (1) where the VOC has an aggregate partial pressure of less than 0.50 psia at the maximum feed temperature or 95°F, whichever is greater, or (2) to storage tanks smaller than 25,000 gallons.

    A. The tank emissions must be controlled as specified in one of the paragraphs below:

        (1) An internal floating deck or "roof" shall be installed. A domed external floating roof tank is equivalent to an internal floating roof tank. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the floating roof: (1) a liquid-mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal.

        (2) An open-top tank shall contain a floating roof (external floating roof tank) which uses double seal or secondary seal technology provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal and the secondary seal is rim-mounted. A weathershield is not approvable as a secondary seal unless specifically reviewed and determined to be vapor-tight.

    B. For any tank equipped with a floating roof, the permit holder shall perform the visual inspections and any seal gap measurements specified in Title 40 Code of Federal Regulations § 60.113b (40 CFR § 60.113b) Testing and Procedures (as amended at 54 FR 32973, Aug. 11, 1989) to verify fitting and seal integrity. Records shall be maintained of the dates inspection was performed, any measurements made, results of inspections and measurements made (including raw data), and actions taken to correct any deficiencies noted.

    C. The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650 dated November 1, 1998 except that an internal floating cover need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials.

    D. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces exposed to the sun shall be white or unpainted aluminum. Storage tanks must be equipped with permanent submerged fill pipes.

E. The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank.

F. The holder of this permit shall maintain the temperature of the liquid in Tanks 45-01 ST and 45-02 ST at less than 200 °F to maintain a vapor pressure of less than 11.0 psia at actual storage conditions. The tank temperature shall be continuously monitored and the temperature shall be recorded daily and during tank filling. **(6/15)**

The temperature monitor shall be calibrated on an annual basis to meet an accuracy specification of ±0.75 percent of the temperature being measured expressed in degrees Celsius or ±2.5°C. Up to 5 percent invalid monitoring data is acceptable on a rolling 12 month basis provided it is only generated when the monitor is broken down, out-of-control (producing inaccurate data); being repaired, having maintenance performed, or being calibrated. The data availability shall be calculated as the total tank operating hours for which quality assured data was recorded divided by the total tank hours in service. Invalid data generated due to other reasons is not allowed. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

11. Storage tanks authorized by this permit to store crude oil (including Canadian Bitumen and Condensate) are subject to the following requirements:

A. The hydrogen sulfide in the vapor space of any tank subject to this condition shall not exceed 24 parts per million by volume (ppmv).

B. The permit holder shall conduct sampling to determine the concentration of H_2S in tank vapor spaces. H_2S concentration may be determined using an instrument meeting the requirements of Special Condition 18.B, except that the "release concentration" shall be 24 ppmv. Additional analytical methods may be approved by the TCEQ Regional Office.

C. The frequency of sampling shall be the more frequent of:

(1) annual; or

(2) within 60 days of any change of service for an affected tank.

D. Records of H_2S concentrations measured to meet the requirements of this condition shall be maintained at the plant site.

Marine Loading Operations

12. Marine loading operations are subject to the following requirements. **(6/15)**

A. Loading operations are limited to the liquids identified below at the rates indicated. **(9/15)**

Product	East Dock (Bbl/hr)	Middle Dock (Bbl/hr)	West Dock (Bbl/hr)	Sands Dock (Bbl/hr)
Natural Gasoline/Naphtha	12,000	24,000	—	4,000
Gasoline	12,000	24,000	—	—
Canadian Bitumen	12,000	24,000	—	—
Condensate/Light Oil	12,000	24,000	40,000	—
Jet	12,000	12,000	—	—
LSR	12,000	12,000	—	—
Distillate	12,000	12,000	12,000	—
Kerosene	12,000	12,000	12,000	—
ATB/VGO	12,000	12,000	—	—
Asphalt	12,000	12,000	—	—
All products Combined	12,000	24,000	40,000	4,000

Total product throughput across the four docks is limited as follows:

Dock	Controlled loading throughput (MMBbl/yr)	Uncontrolled Loading throughput (MMBbl/yr)
East Dock	38.325	7.3
Middle Dock	63.875	16.425
West Dock	51.1	38.325
Sands Dock	3.65	—

B. All loading shall be submerged and rolling 12 month rack throughput records shall be updated on a monthly basis for each product loaded.

C. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections.

D. All ship and barge loading emissions shall be captured and directed to a control device as indicated in this paragraph if the liquid loaded has a vapor pressure greater than 0.50 psia at 95°F. **(9/15)**

Marine vessels shall not be loaded with liquid unless the vapor collection system is properly connected and the entire collection and destruction system is working as designed. Vapor Combustion Units shall be operated in accordance with the requirements of Special Conditions 30, and Vapor Recovery Units shall be operated in accordance with the requirements of Special Conditions 31.

Loading Location	Control Device (Identified by EPN)
East Dock	VCU1, VCU2, VRU1, or VRU2
Middle Dock	VCU1, VCU2, VRU1, VRU2, or VRU3
West Dock	VCU1, VCU2, VRU1, VRU2, or VRU3
Sands Dock	VRU1

E. If the liquid to be loaded has a VOC vapor pressure that is greater than 0.50 psia at 95°F, the following requirements apply:

(1) Unless the vessel must be inerted during loading due to safety requirements, the marine loading vapor collection system shall be operated such that the vacuum maintained in the collection system during loading is no less than 1 inch of water and that the vessel being loaded is also under a vacuum. The collection system vacuum shall be continuously monitored and recorded at least once every 15 minutes. The vacuum monitor shall be installed, calibrated at least annually, and maintained according to the manufacturer's specifications. The device shall have an accuracy of the greater of ±5 percent of the vacuum being measured or ±0.15 inches of water.

(2) If the vessel must remain inerted during loading (it is not possible to draw a vacuum on the marine vessel) due to safety requirements, the marine vessel must have passed an annual vapor tightness test as specified in 40 CFR § 63.565(c) (September 19, 1995) or 40 CFR § 61.304(f) (October 17, 2000). The permit holder shall record the leak test documentation for all ships loaded.

13. The following actions shall be taken prior to removing loading lines/hoses from marine vessels and shore facilities.

A. After the transfer is complete, the loading line/hose shall be isolated at the connections to the marine vessel and the shore piping. Pressurized nitrogen or air shall be connected to one end of the line/hose to transfer (blow) the liquid in the loading line/hose into a tank or marine vessel per the site operating procedure. A marine vessel vented to control is the preferred receiving vessel for the liquid, if available.

B. The loading line/hose may be disconnected from the shore and/or marine vessel piping after the liquid has been removed (blown) from the loading line/hose. If it is necessary to empty the line/hose, any residual liquid in the line/hose shall be immediately drained directly into a sump. The sump shall be pumped down and any standing liquid removed within 5 minutes of draining the line/hose. If the line/hose is not emptied, the open end(s) of the line/hose shall be immediately capped, plugged, or blinded to prevent leakage.

C. After the loading line/hose has been removed from the vessel, the vapor return line shall be isolated at the marine vessel. If the VOC vapor pressure of the liquid loaded was greater than 0.50 psia at 95°F, at least 5 volumes of air or nitrogen shall be vented through the vapor return line from the connection at the ship to the on shore vapor control system prior to disconnecting the vapor return line.

The actions shall be documented as part of the loading procedure.

Rail loading operations

14. Rail loading operations are subject to the following requirements. **(6/15)**

A. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections.

B. Railcar loading emissions shall be captured and directed to a Vapor Recovery Unit (EPN VRU4) if the liquid loaded has a vapor pressure greater than 0.50 psia at 95°F.

Railcars shall not be loaded with liquid unless the vapor collection system is properly connected and the entire collection and control system is working as designed. The Vapor Recovery Unit shall be operated in accordance with the requirements of Special Conditions 31.

C. Vapor tightness of railcar tankers. Each railcar tanker which is to be loaded with material having a VOC partial pressure of greater than or equal to 0.5 psia and less than or equal to 11.0 psia shall comply with either of the following requirements.

(1) The railcar must satisfy the requirements of 40 CFR §63.2346(d)(1), relating to vapor-tight transport vehicles to be loaded with vapor control equipment.

The permit holder shall not allow a railcar to be filled unless it has passed a leak-tight test within the past year as evidenced by a certificate which shows the date the railcar last passed the leak-tight test required by this condition and the identification number of the railcar.

(2) The railcar must satisfy the requirements of 40 CFR §63.2346(d)(2), relating to pressure-rated transport vehicles to be loaded without vapor collection equipment.

The permit holder shall not allow a railcar to be filled unless it has a current certification in accordance with U.S. Department of Transportation (DOT) pressure test requirements of 49 CFR §173.31.

D. Authorized throughput at the rail loading rack is limited to the following products and throughputs.

Product class	Hourly throughput	Rolling 12-months throughput
Liquefied Petroleum Gas (propane, n-butane, isobutene)	1 railcar/hr	730 railcars/yr
Naphthas	1,000 Bbl/hr	500,000 Bbl/yr
Distillates	1,000 Bbl/hr	500,000 Bbl/yr

Equipment leaks

15. Piping, Valves, Connectors, Pumps, Agitators, and Compressors in VOC service — 28VHP

A. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment:

The requirements of paragraphs F and G shall not apply (1) where the Volatile Organic Compound (VOC) has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68° F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made readily available upon request.

The exempted components may be identified by one or more of the following methods:

(1) piping and instrumentation diagram (PID);

(2) a written or electronic database or electronic file;

(3) color coding;

(4) a form of weatherproof identification; or

(5) designation of exempted process unit boundaries.

B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.

C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.

D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.

E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of

the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

(1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or

(2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once within the 72 hour period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

F. Accessible valves shall be monitored by leak checking for fugitive emissions at least quarterly using an approved gas analyzer. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. If a relief valve is equipped with rupture disc, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity.

A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

The gas analyzer shall conform to requirements listed in Method 21 of 40 CFR part 60, appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

Replacements for leaking components shall be re-monitored within 15 days of being placed back into VOC service.

G. Except as may be provided for in the special conditions of this permit, all pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. These seal systems may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

H. Damaged or leaking valves or connectors found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. Damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 2,000 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days and a record of the attempt shall be maintained.

I. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging within 15 days of the detection of the leak. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of §repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

J. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place

for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.

K. Alternative monitoring frequency schedules of 30 TAC §§115.352 – 115.359 or National Emission Standards for Organic Hazardous Air Pollutants, 40 CFR Part 63, Subpart H, may be used in lieu of Items F through G of this condition.

L. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants (NESHAPS) and does not constitute approval of alternative standards for these regulations.

16. In addition to the weekly physical inspection required by Item E of Special Condition 15, all connectors in gas/vapor and light liquid service shall be monitored annually with an approved gas analyzer in accordance with Items F thru J of Special Condition 15. Alternative monitoring frequency schedules ("skip options") of Title 40 Code of Federal Regulations Part 63, Subpart H, National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks, may be used in lieu of the monitoring frequency required by this permit condition. Compliance with this condition does not assure compliance with requirements of applicable state or federal regulation and does not constitute approval of alternative standards for these regulations. (28CNTA) **(6/15)**

Planned Maintenance, Startup and Shutdown

General

17. This permit authorizes the emissions from the planned maintenance, startup, and shutdown (MSS) activities summarized in the MSS Activity Summary (Attachment C) attached to this permit.

This permit authorizes emissions from the following temporary facilities used to support planned MSS activities at permanent site facilities: vacuum trucks, portable control devices identified in Special Condition 25, and controlled recovery systems. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities listed in the permit MAERT, and (c) does not operate as a replacement for an existing authorized facility.

Attachment A identifies the inherently low emitting MSS activities that may be performed at the plant. Emissions from activities identified in Attachment A shall be considered to be equal to the potential to emit represented in the permit application. The estimated emissions from the activities listed in Attachment A must be revalidated annually. This revalidation shall consist of the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment B may be tracked through the work orders or equivalent. Emissions from activities identified in Attachment B shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

The performance of each planned MSS activity not identified in Attachment A or Attachment B and the emissions associated with it shall be recorded and include at least the following information:

A. the process unit at which emissions from the MSS activity occurred, including the emission point number and common name of the process unit;

B. the type of planned MSS activity and the reason for the planned activity;

C. the common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;

D. the date and time of the MSS activity and its duration;

E. the estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

All MSS emissions shall be summed monthly and the rolling 12-month emissions shall be updated on a monthly basis.

Approved analytical methods

18. Air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below.

A. VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR 60, Appendix A) with the following exceptions:

(1) The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor (RF) of the VOC (or mixture of VOCs) to be monitored shall be less than 2.0. The calibration gas and the gas to be measured, and its approximate (RF) shall be recorded. (In the event that the applicant can demonstrate that they cannot obtain a calibration gas that meets the requirements of the first sentence, then a calibration gas may be selected such that the RF of VOCs (or mixtures of VOCs) to be monitored is over 2.0. The language below may be added to the permit condition. The permit reviewer should insure that in no case is a calibration gas selected such the RF of the VOC to be monitored will be greater than 5.0. In an instrument calibrated for greatest accuracy at 10,000 ppmv, monitoring a VOC with a RF of 5 would result in readings being taken in the 0–2000 ppmv range, reducing the accuracy of the readings.) If the RF of the VOC (or mixture of VOCs) to be

monitored is greater than 2.0, the VOC concentration shall be determined as follows:

VOC Concentration = Concentration as read from the instrument×RF

In no case should a calibration gas be used such that the RF of the VOC (or mixture of VOCs) to be monitored is greater than 5.0.

(2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. As an alternative the VOC concentration may be monitored over a five-minute period with an instrument designed to continuously measure concentration and record the highest concentration read. The highest measured VOC concentration shall be recorded and shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.

(1) The air contaminant concentration measured as defined in (3) is less than 80 percent of the range of the tube and is at least 20 percent of the maximum range of the tube.

(2) The tube is used in accordance with the manufacturer's guidelines.

(3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:

10,000*mole fraction of the total air contaminants present that can be detected by the tube.

The mole fraction may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.

Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.

C. Lower explosive limit measured with a lower explosive limit detector.

(1) The detector shall be calibrated within 30 days of use with a certified pentane gas standard at 25% of the lower explosive limit (LEL) for pentane. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.

(2) A functionality test shall be performed on each detector within 24 hours of use with a certified gas standard at 25% of the LEL for pentane (this should match the standard used for the calibration). The LEL monitor shall read no lower than 90% of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.

(3) A certified methane gas standard equivalent to 25% of the LEL for pentane may be used for calibration and functionality tests provided that the LEL response is within 95% of that for pentane.

Open-ended lines

19. This condition applies only to piping and components subject to leak detection and repair monitoring requirements identified in other NSR permits. Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

    A. a cap, blind flange, plug, or second valve must be installed on the line or valve; or

    B. the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

Tank floating roof landings

20. This permit authorizes emissions from EPN MSS1 ST RL and MSS VCU for the storage tanks identified in the attached facility list during planned floating roof landings. Tank roofs may only be landed for changes of tank service or tank inspection/maintenance as identified in the permit application. Emissions from change of service tank landings, for which the tank is not cleaned and degassed, shall not exceed 10 tons of VOC in any rolling 12 month period. Tank roof landings include all operations when the tank floating roof is on its supporting legs. These emissions are subject to the maximum allowable emission rates indicated on the MAERT. The following requirements apply to tank roof landings.

    A. The tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank has been drained to the maximum extent practicable without entering the tank. Liquid level may be maintained steady for a period of up to two hours if necessary to allow for valve lineups and pump changes necessary to drain the tank. This requirement does not apply where the vapor under a floating roof is routed to control or a controlled recovery system during this process.

    B. If the VOC partial pressure of the liquid previously stored in the tank is greater than 0.50 psi at 95°F, tank refilling or degassing of the vapor space under the landed

floating roof must begin within 24 hours after the tank has been drained unless the vapor under the floating roof is routed to control or a controlled recovery system during this period. The tank shall not be opened except as necessary to set up for degassing and cleaning, Floating roof tanks with liquid capacities less than 100,000 gallons may be degassed without control if the VOC partial pressure of the standing liquid in the tank has been reduced to less than 0.02 psia prior to ventilating the tank. Controlled degassing of the vapor space under landed roofs shall be completed as follows:

(1) Any gas or vapor removed from the vapor space under the floating roof must be routed to a control device or a controlled recovery system and controlled degassing must be maintained until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. There shall be no other gas/vapor flow out of the vapor space under the floating roof when degassing to the control device or controlled recovery system.

(2) The vapor space under the floating roof shall be vented using good engineering practice to ensure air contaminants are flushed out of the tank through the control device or controlled recovery system to the extent allowed by the storage tank design.

(3) A volume of purge gas equivalent to twice the volume of the vapor space under the floating roof must have passed through the control device or into a controlled recovery system, before the vent stream may be sampled to verify acceptable VOC concentration. The measurement of purge gas volume shall not include any make-up air introduced into the control device or recovery system. The VOC sampling and analysis shall be performed as specified in Special Condition 18.

(4) The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged.

(5) Degassing must be performed every 24 hours unless there is no standing liquid in the tank or the VOC partial pressure of the remaining liquid in the tank is less than 0.15 psia.

C. The tank shall not be opened or ventilated without control, except as allowed by (1) below until one of the criteria in part D of this condition is satisfied.

(1) Minimize air circulation in the tank vapor space.

(a) One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank.

(b) Access points shall be closed when not in use

D. The tank may be opened without restriction and ventilated without control, after all standing liquid has been removed from the tank or the liquid remaining in the tank has a VOC partial pressure less than 0.02 psia. These criteria shall be demonstrated in any one of the following ways.

(1) Low VOC partial pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid remaining in the drained tank and the volume and type of liquid added shall be recorded. The liquid VOC partial pressure may be estimated based on this information and engineering calculations.

(2) If water is added or sprayed into the tank to remove standing VOC, one of the following must be demonstrated:

(a) Take a representative sample of the liquid remaining in the tank and verify no visible sheen using the static sheen test from 40 CFR 435 Subpart A Appendix 1.

(b) Take a representative sample of the liquid remaining in the tank and verify hexane soluble VOC concentration is less than 1000 ppmw using EPA method 1664 (may also use 8260B or 5030 with 8015 from SW-846).

(c) Stop ventilation and close the tank for at least 24 hours. When the tank manway is opened after this period, verify VOC concentration is less than 1000 ppmv through the procedure in Special Condition 18.

(3) No standing liquid verified through visual inspection.

The permit holder shall maintain records to document the method used to release the tank.

E. Tanks shall be refilled as rapidly as practicable until the roof is off its legs with the following exceptions:

(1) Only one tank with a landed floating roof can be filled at any time at a rate not to exceed 4,000 bbl/hr.

(2) The vapor space below the tank roof is directed to a control device meeting the requirements of Special Condition 25 when the tank is refilled until the roof is floating on the liquid. The control device used and the method and locations used to connect the control device shall be recorded. All vents from the tank being filled must exit through the control device.

F. The occurrence of each roof landing and the associated emissions shall be recorded and the rolling 12-month tank roof landing emissions shall be updated on a monthly basis. These records shall include at least the following information:

(1) the identification of the tank and emission point number, and any control devices or recovery systems used to reduce emissions;

(2) the reason for the tank roof landing;

(3) for the purpose of estimating emissions, the date, time, and other information specified for each of the following events:

  (a) the roof was initially landed,

  (b) all liquid was pumped from the tank to the extent practical,

  (c) start and completion of controlled degassing, and total volumetric flow,

  (d) all standing liquid was removed from the tank or any transfers of low VOC partial pressure liquid to or from the tank including volumes and vapor pressures to reduce tank liquid VOC partial pressure to <0.02 psi,

  (e) if there is liquid in the tank, VOC partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow,

  (f) refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and

  (g) tank roof off supporting legs, floating on liquid;

(4) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events c and g with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 — Storage of Organic Liquids" dated November 2006 and the permit application.

21. Tank floating roof landings are subject to the requirements of this condition. **(03/16)**

A. The frequency of tank floating roof landings shall be limited as follows.

Tank group	Total number of permitted roof landing events per rolling 12 months
250 MBbl Tanks (EPNs 250-01 ST, 250-02 ST, 250-03 ST, 250-04 ST, 250-05 ST, 250-06 ST)	2
115 MBbl Tanks (EPNs 115-01 ST, 115-02 ST, 115-03 ST, 115-04 ST)	4
80 MBbl Tanks (EPNs 80-01 ST, 80-02 ST, 80-03 ST)	3
50 MBbl Tanks (EPNs 50-01 ST, 50-02 ST, 50-03 ST)	3
45 MBbl Tanks (EPNs 45-01 ST, 45-02 ST)	1

B. No more than one tank may be in operation with a landed roof during any 60-minute period.

Vacuum trucks and air mover trucks

22. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:

A. Prior to initial use, identify any liquid in the truck. Record the liquid level and document the VOC partial pressure. After each liquid transfer, identify the liquid, the volume transferred, and its VOC partial pressure.

B. If vacuum pumps or blowers are operated when liquid is in or being transferred to the truck, the following requirements apply:

(1) If the VOC partial pressure of the liquid in or being transferred to the truck is greater than 0.50 psi at 95°F, the vacuum/blower exhaust shall be routed to a control device or a controlled recovery system.

(2) Equip fill line intake with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.

(3) A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.

(a) For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a

"duckbill" or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.

(b) If the vacuum truck exhaust is controlled with a control device other than an engine or oxidizer, VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer shall be recorded, measured using an instrument meeting the requirements of Special Condition 18.A or 18.B.

C. Record the volume in the vacuum truck at the end of the day, or the volume unloaded, as applicable.

D. The permit holder shall determine the vacuum truck emissions each month using the daily vacuum truck records and the calculation methods utilized in the permit application. If records of the volume of liquid transferred for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid vacuumed with the greatest potential emissions. Rolling 12 month vacuum truck emissions shall also be determined on a monthly basis.

E. If the VOC partial pressure of all the liquids vacuumed into the truck is less than 0.10 psi, this shall be recorded when the truck is unloaded or leaves the plant site and the emissions may be estimated as the maximum potential to emit for a truck in that service as documented in the permit application. The recordkeeping requirements in paragraphs A through D of this condition do not apply.

Utilization of Permits by Rule

23. Additional occurrences of MSS activities authorized by this permit may be authorized under permit by rule only if conducted in compliance with this permit's procedures, emission controls, monitoring, and recordkeeping requirements applicable to the activity.

Permanent facilities

24. All permanent facilities must comply with all operating requirements, limits, and representations in the permits identified in Attachment D during planned startup and shutdown unless alternate requirements and limits are identified in this permit. Alternate requirements for emissions from routine emission points are identified below.

A. Combustion units, with the exception of flares, at this site are exempt from NOx and CO operating requirements identified in special conditions in other NSR permits during planned startup and shutdown if the following criteria are satisfied.

(1) The maximum allowable emission rates in the permit authorizing the facility are not exceeded.

(2) The startup period does not exceed 8 hours in duration and the firing rate does not exceed 75 percent of the design firing rate. The time it takes to complete the shutdown does not exceed 4 hours.

(3) Control devices are started and operating properly when venting a waste gas stream.

B. A record shall be maintained indicating that the start and end times of each of the activities identified above occur and documentation that the requirements for each have been satisfied.

Approved control devices for MSS activities

25. Control devices required by this permit for emissions from planned MSS activities are limited to those types identified in this condition. Control devices shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Each device used must meet all the requirements identified for that type of control device.

Controlled recovery systems identified in this permit shall be directed to an operating process or to a collection system that is vented through a control device meeting the requirements of this permit condition.

A. Carbon Adsorption System (CAS).

(1) The CAS shall consist of 2 carbon canisters in series with adequate carbon supply for the emission control operation.

(2) The CAS shall be sampled downstream of the first can and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC. The sampling frequency may be extended using either of the following methods:

(a) It may be extended to up to 30 percent of the minimum potential saturation time for a new can of carbon. The permit holder shall maintain records including the calculations performed to determine the minimum saturation time.

(b) The carbon sampling frequency may be extended to longer periods based on previous experience with carbon control of a MSS waste gas stream. The past experience must be with the same VOC, type of facility, and MSS activity. The basis for the sampling frequency shall be recorded. If the VOC concentration on the initial sample downstream of the first carbon canister following a new polishing canister being put in place is greater than 100 ppmv above background, it shall be assumed that breakthrough occurred while that canister functioned as the final polishing canister and a permit deviation shall be recorded.

(3) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition 18.A or 18.B.

(4) Breakthrough is defined as the highest measured VOC concentration at or exceeding 100 ppmv above background. When the condition of breakthrough of VOC from the initial saturation canister occurs, the waste gas flow shall be

switched to the second canister and a fresh canister shall be placed as the new final polishing canister within four hours. Sufficient new activated carbon canisters shall be maintained at the site to replace spent carbon canisters such that replacements can be done in the above specified time frame.

(5) Records of CAS monitoring shall include the following:

(a) Sample time and date.

(b) Monitoring results (ppmv).

(c) Canister replacement log.

(6) Single canister systems are allowed if the time the carbon canister is in service is limited to no more than 30 percent of the minimum potential saturation time. The permit holder shall maintain records for these systems, including the calculations performed to determine the saturation time. The time limit on carbon canister service shall be recorded and the expiration date attached to the carbon can.

B. Vapor Combustor.

(1) The vapor combustion unit shall provide no less than 99 percent DRE control of the waste gas directed to it. This may be demonstrated by:

(a) maintaining thermal oxidizer/vapor combustor firebox exit temperature at not less than 1400°F with waste gas flows shall be limited to assure at least a 0.5 second residence time in the fire box while waste gas is being fed into the oxidizer/combustor; or

(b) having completed a control efficiency demonstration (stack test) in accordance with the approved test methods in 30 TAC 115.545 (relating to Approved Test Methods) within the past 12 months and maintaining thermal oxidizer/vapor combustor firebox exit temperature at not less than that temperature maintained during the demonstration with waste gas flow limited to that maintained during the demonstration while waste gas is being fed into the oxidizer/combustor.

The thermal oxidizer/vapor combustor exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer/combustor. The temperature measurements shall be made at intervals of six minutes or less and recorded at that frequency.

The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ±0.75 percent of the temperature being measured expressed in degrees Fahrenheit or ±4.5°F.

Initial Demonstration of Compliance

26. The permit holder shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere

from the Marine VCU to demonstrate compliance with the MAERT, and the control requirements listed in Special Condition 30. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual and the U.S. Environmental Protection Agency (EPA) Reference Methods.

Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate/equivalent procedure proposals for Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60) testing which must have EPA approval shall be submitted to the TCEQ Regional Director.

A. The appropriate TCEQ Regional Office shall be notified not less than 45 days prior to sampling. The notice shall include:

   (1) Proposed date for pretest meeting.

   (2) Date sampling will occur.

   (3) Name of firm conducting sampling.

   (4) Type of sampling equipment to be used.

   (5) Method or procedure to be used in sampling.

   (6) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.

   (7) Procedure/parameters to be used to determine worst case emissions (such as production rate, temperature for incinerators, etc. These set operating parameters to be monitored and operating limits in other permit conditions) during the sampling period.

   The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for the test reports. The TCEQ Regional Director must approve any deviation from specified sampling procedures.

B. Air contaminants emitted from the Marine VCU to be tested for include (but are not limited to) Volatile Organic Compounds.

C. Sampling shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities (or increase in production, as appropriate) and at such other times (identify the need for any periodic sampling here) as may be required by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate regional office.

D. The facility being sampled shall operate at maximum marine vessel loading rates during stack emission testing. These conditions/parameters and any other primary operating parameters that affect the emission rate shall be monitored and recorded

during the stack test. Any additional parameters shall be determined at the pretest meeting and shall be stated in the sampling report. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed condition/parameter range is identified in the test notice specified in paragraph A and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods.

During subsequent operations, if the marine vessel loading rate is greater than that recorded during the test period, stack sampling shall be performed at the new operating conditions within 120 days. This sampling may be waived by the TCEQ Air Section Manager for the region.

E. Copies of the final sampling report shall be forwarded to the offices below within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions entitled "Chapter 14, Contents of Sampling Reports" of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One set of copies to the appropriate TCEQ Regional Office.

One set of copies to each local air pollution control program.

27. Sampling ports and platform(s) shall be incorporated into the design of the Marine VCU (EPNs VCU1, VCU2) according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director.

28. The requirements of Special Conditions 26–27, relating to initial stack testing and installation of sampling ports, shall apply to each Vapor Recovery Unit (EPNs VRU1, VRU2, VRU3, VRU4). **(9/15)**

Continuous Demonstration of Compliance

29. The following requirements apply to capture systems for each VCU (EPNs VCU1 and VCU2) and for each VRU (EPNs VRU1, VRU2, and VRU3) used to control marine loading emissions.

A. The permit holder shall conduct either:

(1) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or

(2) Once a year, verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.

B. If there is a bypass for the control device, the permit holder shall comply with either of the following requirements:

(1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or

(2) Once a month, inspect the valves, verifying that the position of the valves and the condition of the car seals prevent flow out the bypass.

A bypass does not include authorized analyzer vents, highpoint bleeder vents, low point drains, or rupture discs upstream of pressure relief valves if the pressure between the disc and relief valve is monitored and recorded at least weekly. A deviation shall be reported if the monitoring or inspections indicate bypass of the control device when it is required to be in service.

C. Records of the inspections required shall be maintained and if the results of any of the above inspections are not satisfactory, the permit holder shall promptly take necessary corrective action.

30. Each vapor combustor shall achieve 99.5% control of the VOC directed to it. This shall be ensured by maintaining the temperature in, or immediately downstream of, the combustion chamber above 1400 °F prior to the initial stack test performed in accordance with Special Condition 26. Following the completion of that stack test, the six minute average temperature shall be maintained above the minimum one hour average temperature maintained during the last satisfactory stack test.

The temperature measurement device shall reduce the temperature readings to an averaging period of 6 minutes or less and record it at that frequency. The temperature monitor shall be installed, calibrated or have a calibration check performed at least annually, and maintained according to the manufacturer's specifications. The device shall have an accuracy of the greater of ±2 percent of the temperature being measured expressed in degrees Celsius or ±2.5°C.

Quality assured (or valid) data must be generated when the VCU is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the VCU operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

Each vapor combustor shall be operated with no visible emissions and have a constant pilot flame during all times waste gas could be directed to it. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated or have a calibration check performed at a frequency in accordance with, the manufacturer’s specifications

31. The requirements of this Special Condition apply to each vapor recovery unit (EPNs VRU1, VRU2, VRU3, VRU4) **(6/15)**

    A. Emissions of volatile organic compounds (VOC) from any VRU shall not exceed 10 milligrams per liter (0.08345 pound per 1,000 gallons) of liquid loaded.

    B. For ship and barge loading activities controlled by VRU in accordance with Special Condition 12, and for railcar loading activities controlled by VRU in accordance with Special Condition 14, all loading emissions shall vent through a carbon adsorption system (CAS) consisting of at least two activated carbon canisters working in parallel such that the vent emissions are alternately controlled by each canister while the other canister is regenerated. The VOC concentration of the CAS exhaust shall be monitored and recorded by a continuous emission monitoring system (CEMS) that is capable of measuring organic compound concentration in the exhaust air stream of the control device.

    C. The CAS shall be sampled and recorded continuously by a CEMS to assure the VOC concentration does not exceed 10,000 ppmv propane equivalent on an hourly average basis. An alarm shall be installed such that an operator is alerted and can take action before the CAS outlet concentration exceeds the maximum allowable concentration. **(9/15)**

        (1) The CAS outlet concentration shall be continuously monitored during stack sampling of each VRU under Special Condition 26. The sampling report submitted under Special Condition 26.E shall include an engineering analysis demonstrating whether a deviation limit of 10,000 ppmv propane equivalent reasonably assures compliance with Paragraph A of this Special Condition. If a deviation limit of 10,000 ppmv propane equivalent does not reasonably assure compliance with Paragraph A, the permit holder shall submit a permit alteration to establish a new deviation limit.

        (2) For control of loading of crude oil only (including condensate), the permit holder may correct the monitored CAS outlet concentration concentration by subtracting from the monitored concentration the estimated portion of the concentration measurement due to emissions of ethane. Both the monitored concentration and the corrected concentration shall be documented. The initial correction shall equal 40,000 ppmv propane equivalent.

            (a) The correction shall be revalidated on a quarterly basis. Revalidation shall include a quarterly determination the ethane concentration in the VRU exhaust taken during loading of crude oil, expressed in units of ppmv propane equivalent.

            (b) The ethane correction shall be adjusted if the results of the revalidation indicate a 25% or greater change in ethane concentration from the previously established ethane correction.

            (c) If the results of revalidation do not vary more than ±25% during three consecutive quarterly tests, the correction may be revalidated on a semi-annual basis.

(d) Upon discovery of a change in the ethane concentration greater ±25% during any semi-annual revalidation, the permit holder shall resume revalidation at quarterly frequency.

(e) Determination of ethane concentration measured in accordance with section (a) shall be performed by an accredited laboratory. In addition to any other records used to demonstrate compliance with this Special Condition, the permit holder shall retain original reports from the accredited laboratory.

D. The CEMS shall meet the design and performance specifications, pass the field tests, meet the installation requirements, and complete the data analysis and reporting requirements specified in Performance Specification 8, Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60), Appendix B. **(9/15)**

(1) The span value shall be 100,000 ppmv propane equivalent.

The system shall be zeroed and spanned daily when the CAS is in operation, and corrective action taken when the 24-hour calibration drift exceeds two times the amounts specified in Performance Specification 8. The CEMS shall be considered out-of-control, as defined in 40 CFR 60, Appendix F, Section 4.3.1, if the daily zero or span calibration drift checks exceed two times the allowable drift specified in Performance Specification 8 for five consecutive daily calibration drift checks.

Each monitor shall be quality-assured at least quarterly in accordance with 40 CFR Part 60, Appendix F, Procedure 1. Any failed quarterly audit and CEMS downtime shall be reported to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. After any failed quarterly audit, the CEMS shall be considered out-of-control, as defined in 40 CFR 60, Appendix F, Procedure 1, Section 5.2, until the successful completion of a corresponding audit following the corrective action.

Quality assured (or valid) data must be generated when the CAS is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the CAS operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

E. When the CEMS is out of service, proper operation of the CAS shall be ensured through system inspection and evaluation and operation in accordance with the manufacturer's recommendations, and after 180 days of operation, also within parameters shown to assure compliance with the maximum concentration limitation. Operating parameters for the CAS system shall be checked to assure compliance with the manufacturer's recommendations and past compliant practice operating ranges. A canister cycle checklist will be maintained as the CAS record for all periods when the CEMS is out of service.

F. During any CEMS downtime or out-of-control period exceeding 24 hours, the marine loading activities controlled by VRU shall be suspended or the CAS exhaust shall be

sampled at a frequency equal to 25 percent of the normal operating time to regeneration. The VOC sampling and analysis shall be performed using an instrument with a flame ionization detector (FID), or a TCEQ-approved alternative detector. The instrument/FID must meet all requirements specified in Section 8.1 of EPA Method 21 (40 CFR 60, Appendix A). Sampling and analysis for VOC concentration shall be performed as follows:

(1) The instrument/FID shall be calibrated daily with zero and span cylinder calibration gas mixtures. Zero gas shall be certified to contain less than 0.1 ppmv total hydrocarbons. Span calibration gas shall be propane at a concentration within ± 10 percent of 10,000 ppmv, and certified by the manufacturer to be ± 2 percent accurate. Calibration error for the zero and span calibration gas checks must be less than ± 5 percent of the span calibration gas value before sampling may be conducted.

(2) Sample ports or connections must be designed such that air leakage into the sample port does not occur during sampling.

(3) During sampling, data recording shall not begin until after two times the instrument response time. The VOC concentration shall be monitored for at least 5 minutes, recording 1-minute averages.

G. Reserved. **(9/15)**

H. Records of the CAS monitoring maintained at the plant site shall include (but are not limited to) the following:

(1) CEMS monitoring results on a 15-minute average basis, and 1-hr averages for any time periods when maximum allowable concentration is exceeded; **(9/15)**

(2) CEMS daily calibration and quarterly audit results;

(3) manufacturers recommended operating ranges and actual compliant operating ranges, with the canister cycle check list to be used during periodic monitoring;

(4) Results of all periodic monitoring conducted during CEMS downtime or out-of-control periods; and

(5) Corrective actions taken (including the time and date of that action);

I. Alternate monitoring or sampling requirements that are equivalent or better may be approved by the TCEQ Regional Director. Alternate requirements must be approved in writing before they can be used for compliance purposes.

32. Visual inspection for carbon build up around the stack shall occur once a week. If carbon build up is noticed, it shall be recorded, the CAS shall be shut down, and corrective action shall be taken in accordance with the system maintenance manual.

33. All personnel involved in maintenance of the CAS shall be trained by the manufacturer in proper maintenance procedures. Certification of such training shall be provided by the manufacturer for each affected individual. A record of certification shall be maintained at the terminal for each affected individual

34. Maintenance shall be performed on the CAS according to the manufacturer's recommended guidelines. The permit holder shall obtain a yearly certification by the manufacturer or a qualified contractor that the recommended maintenance is being performed.

Incorporation by Reference

35. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit.

Authorization	Source or activity
PBR 107620	MSS Surface coating

Date: March 24, 2016

Attachment A

Inherently Low Emitting Activities

Activity	Emissions			
	VOC	NO_x	CO	H_2S/SO_2
Aerosol Cans	x			
Calibration of analytical equipment	x	X	x	X
Carbon can replacement	x			
Instrumentation/analyzer maintenance	x			
Meter proving	x			
Replacement of analyzer filters and screens	x			
Soap and other aqueous based cleaners	x			
Cleaning sight glasses	x			

Date: June 3, 2015

Attachment B

Routine Maintenance Activities

Pump repair/replacement

Fugitive component (valve, pipe, flange) repair/replacement

Compressor repair/replacement

Heat exchanger repair/replacement

Vessel repair/replacement

Date: June 3, 2015

Attachment C

MSS Activity Summary **(6/15)**

Facilities	Description	Emissions activity	EPN
All floating roof tanks	tank roof landing	operation with landed roof	MSS1_STRL
All tanks	tank cleaning	Cleaning activity and solvents	MSS1_STRL
All tanks	Preparation for unit turnaround or facility/component repair/replacement	Remove liquid	MSS_VCU
All floating roof tanks	degas of tank with landed roof	Controlled degassing	MSS_VCU
Pipelines	Pipeline pigging	Pig removal and cleaning	MSS4_PLP, MSS7_PLP2
Flow meters	Flow meter maintenance	Flow meter removal and cleaning	MSS2_FMM
HG Guard	Absorber media maintenance	Change of absorber media	MSS5_HG1, MSS6_HG2
See Attachment A	Miscellaneous low emitting activities	See Attachment A	MSS1_STRL

Date: June 3, 2015

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 106594 and PSDTX1324M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MSS1_STRL	Uncontrolled Roof Landings	VOC	26.15	2.20
MSS2_FMM	Flow Meter Maintenance	VOC	0.08	0.01
MSS4_PLP	Pipeline Pigging 1	VOC	2.50	0.01
MSS_5_HG1	HG Guard 1 Maintenance	VOC	0.46	0.01
MSS6_HG2	HG Guard 2 Maintenance	VOC	0.46	0.01
MSS7_PLP2	Pipeline Pigging 2	VOC	2.34	0.01
MSS_VCU	Controlled roof landings (15 MMBtu/hr)	CO	4.77	0.17
		NO_x	1.50	0.05
		VOC	6.76	0.15
		SO_2	0.10	0.01
		PM	0.11	0.01
		PM_{10}	0.11	0.01
		$PM_{2.5}$	0.11	0.01
FUG1_EQML	Piping Fugitives Area 1 (5)	VOC	0.02	0.09
FUG2_EQST	Piping Fugitives Area 2 (5)	VOC	0.06	0.25
FUG3_EQRU	Piping Fugitives Area 3 (5)	VOC	0.02	0.08
FUG4_EQST	Piping Fugitives Area 4 (5)	VOC	0.03	0.13
FUG5_EQST	Piping Fugitives Area 5 (5)	VOC	0.02	0.10
FUG6_EQST	Piping Fugitives Area 6 (5)	VOC	0.04	0.18
FUG7_EQST	Piping Fugitives Area 7 (5)	VOC	0.04	0.17
FUG8_EQPL	Piping Fugitives Area 8 (5)	VOC	0.01	0.02
FUG9_ML1	East Dock Loading Fugitives	VOC	81.87	90.70

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FUG10_ML2	Middle Dock Loading Fugitives	VOC	162.74	152.06
FUG11_ML3	West Dock Loading Fugitives	VOC	269.62	129.98
FUG12_ML4	Sands Dock Loading Fugitives	VOC	26.98	8.45
FUG13_HG1	HG Guard 1 Fugitives (5)	VOC	< 0.01	0.02
FUG14_HG2	HG Guard 2 Fugitives (5)	VOC	< 0.01	0.02
FUG15_PL2	Pipeline Fugitives 2 (5)	VOC	0.03	0.12
FUG16_RL	Rail Loading/Unloading Fugitives	VOC	7.34	1.40
FUG17_VRU1	VRU1 & 2 Fugitive Emissions Area (5)	VOC	0.03	0.12
FUG18_VRU2	VRU3 Fugitive Emissions Area (5)	VOC	0.03	0.12
FUG19_VRU3	VRU4 Fugitive Emissions Area (5)	VOC	0.03	0.12
45-01_ST	Storage Tank 45-01	VOC	7.08	2.06
45-02_ST	Storage Tank 45-02	VOC	7.08	2.06
50-01_ST	Storage Tank 50-01	VOC	2.88	4.25
50-02_ST	Storage Tank 50-02	VOC	2.85	4.18
50-03_ST	Storage Tank 50-03	VOC	2.85	4.18
80-01_ST	Storage Tank 80-01	VOC	3.53	6.31
80-02_ST	Storage Tank 80-02	VOC	3.53	6.31
80-03_ST	Storage Tank 80-03	VOC	3.53	6.31
115-01_ST	Storage Tank 115-01	VOC	2.32	3.71
115-02_ST	Storage Tank 115-02	VOC	2.32	3.71
115-03_ST	Storage Tank 115-03	VOC	2.32	3.71
115-04_ST	Storage Tank 115-04	VOC	2.32	3.71
250-01_ST	Storage Tank 250-01	VOC	3.58	6.86
250-02_ST	Storage Tank 250-02	VOC	3.58	6.86
250-03_ST	Storage Tank 250-03	VOC	3.58	6.86
250-04_ST	Storage Tank 250-04	VOC	3.58	6.86

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
250-05_ST	Storage Tank 250-05	VOC	3.58	6.86
250-06_ST	Storage Tank 250-06	VOC	3.58	6.86
VCU1	Vapor Combustor 1 (157.6 MMBtu/hr)	VOC	20.22	24.15
		CO	24.6	—
		NO_x	23.7	—
		PM	1.20	—
		PM_{10}	1.20	—
		$PM_{2.5}$	1.20	—
		SO_2	1.91	—
VCU2	Vapor Combustor 2 (157.6 MMBtu/hr)	VOC	20.22	24.15
		CO	24.6	—
		NO_x	23.7	—
		PM	1.20	—
		PM_{10}	1.20	—
		$PM_{2.5}$	1.20	—
		SO_2	1.91	—
VCU_CMB	VCU Cap (VCU1 and VCU2 combined emissions)	CO	—	38.98
		NO_x	—	37.49
		PM	—	1.90
		PM_{10}	—	1.90
		$PM_{2.5}$	—	1.90
		SO_2	—	3.03
VRU1	Vapor Recovery Unit 1	VOC	42.06	74.35
VRU2	Vapor Recovery Unit 2	VOC	42.06	74.35
VRU3	Vapor Recovery Unit 3	VOC	140.19	126.32
VRU4	Vapor Recovery Unit 4	VOC	3.50	0.88

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
GEN1	Backup Diesel Generator (250 kW)	VOC	0.84	0.01
		CO	0.50	0.01
		NO_x	2.04	0.03
		PM	0.09	0.01
		PM_{10}	0.09	0.01
		$PM_{2.5}$	0.09	0.01
		SO_2	0.69	0.01
FUG20_LPG	Piping Fugitives Area 20 (5)	VOC	0.78	3.43
FUG21_BULT	Bullet tank loading disconnect emissions	VOC	0.03	0.02
FUG22_BARG	LPG Barge Loading disconnect emissions	VOC	0.43	0.58
FUG23_OGV	LPG Ocean Going Vessel Loading disconnect emissions	VOC	2.61	0.36
FUG24_ODOR	LPG Odorant Loading disconnect emissions	VOC	0.01	0.01

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: March 24, 2016